

Title (en)

Apparatus and system for long-term cutaneous cardiac monitoring

Title (de)

Vorrichtung und System zur kutanen Langzeitherzüberwachung

Title (fr)

Appareil et système de surveillance cardiaque cutanée à long terme

Publication

EP 2589333 A1 20130508 (EN)

Application

EP 12184254 A 20120913

Priority

US 201161555512 P 20111104

Abstract (en)

The invention refers to a system comprising: (1) a disposable unit that has at least two built-in electrodes, a built-in wire antenna, a watertight chamber that can be opened and closed, and an adhesive surface; (2) an electronic controller that can acquire, process and store the physiological signals and can be fitted into the disposable unit and establish the electrical contact with the at least two built-in electrodes; and (3) a portable communication unit that can wirelessly communicate bi-directionally with the electronic controller and further communicate bi-directionally with a remote service center.

IPC 8 full level

A61B 5/0432 (2006.01); **A61B 5/0452** (2006.01); **A61B 5/0408** (2006.01); **A61B 5/0472** (2006.01); **A61B 5/366** (2021.01)

CPC (source: EP US)

A61B 5/0006 (2013.01 - EP US); **A61B 5/259** (2021.01 - US); **A61B 5/282** (2021.01 - EP US); **A61B 5/316** (2021.01 - EP US); **A61B 5/335** (2021.01 - EP US); **A61B 5/35** (2021.01 - EP US); **A61B 5/366** (2021.01 - EP US); **A61B 5/6833** (2013.01 - EP US); **A61B 5/7221** (2013.01 - EP US); **A61B 2560/029** (2013.01 - EP US); **A61B 2560/0412** (2013.01 - EP US); **A61B 2560/0443** (2013.01 - EP US); **A61B 2560/0468** (2013.01 - EP US)

Citation (applicant)

- US 2011125040 A1 20110526 - CRAWFORD MICHAEL [US], et al
- US 2009240300 A1 20090924 - LIAN JIE [US], et al
- US 6470215 B1 20021022 - KRAUS MICHAEL [DE], et al
- US 6574509 B1 20030603 - KRAUS MICHAEL [DE], et al
- US 6622043 B1 20030916 - KRAUS MICHAEL [DE], et al

Citation (search report)

- [I] US 2006229521 A1 20061012 - BARR KEITH E [US]
- [I] US 2011144470 A1 20110616 - MAZAR SCOTT T [US], et al
- [A] US 6577893 B1 20030610 - BESSON MARCUS [DE], et al
- [A] US 2010185114 A1 20100722 - LILLEGARD GREGORY A [US], et al
- [A] US 4583553 A 19860422 - SHAH ATUL P [US], et al
- [A] US 5819741 A 19981013 - KARLSSON PER [SE], et al
- [A] US 2008214946 A1 20080904 - MILLER ROBIN [GB], et al
- [A] US 6605046 B1 20030812 - DEL MAR BRUCE E [US]
- [A] US 6117077 A 20000912 - DEL MAR BRUCE EUGENE [US], et al
- [A] US 6856832 B1 20050215 - MATSUMURA FUMIYUKI [JP], et al

Cited by

CN104997503A; EP3813656A4; EP4014852A4; EP3777675A1; US11666229B2; WO2015048191A1; WO2021028432A1; US9717433B2; US10264992B2; USD892340S; US11213237B2; US10433748B2; US11006883B2; US11445966B2; US9717432B2; US10154793B2; US10631748B2; US9737224B2; US10413205B2; US11324441B2; US11744513B2; US9737211B2; US10052022B2; USD831833S; US10499812B2; US11096579B2; US11445907B2; US11678798B2; US10433751B2; US10736529B2; US10813567B2; US11445969B2; US11653870B2; US9615763B2; US9820665B2; US9955888B2; US10172534B2; US10271756B2; US10561326B2; US10624551B2; US11445964B2; US11660035B2; US11660037B2; US10045709B2; US10736532B2; US10806360B2; US11647939B2; US11723575B2; US11918364B2; US9775536B2; US10004415B2; US10165946B2; US10271755B2; US10624552B2; US10667711B1; US10820801B2; US10888239B2; US11051743B2; US11445908B2; US11445967B2; US11678799B2; US9619660B1; US9955885B2; US9955911B2; US10265015B2; US10278603B2; US10433743B1; US10602977B2; US10799137B2; US11013446B2; US11051754B2; US11179087B2; US11445962B2; US11647941B2; US10251576B2; US10463269B2; US10813568B2; US10849523B2; US11445970B2; US11678832B2; US11826151B2; US9655537B2; US9655538B2; US9730641B2; USD838370S; US10251575B2; US10398334B2; US10716516B2; US10736531B2; US10939841B2; US11116451B2; US11445961B2; US11445965B2; US11653868B2; US11653880B2; US11678830B2; US11786159B2; US9642537B2; US9700227B2; US9730593B2; US9788722B2; US9901274B2; US9936875B2; US10111601B2; US10123703B2; US10278606B2; US10390700B2; US10478083B2; US10561328B2; US10869601B2; US11103173B2; US11272872B2; US11457852B2; US11653869B2; US11701044B2; US11701045B2; US11793441B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2589333 A1 20130508; US 2013116533 A1 20130509

DOCDB simple family (application)

EP 12184254 A 20120913; US 201213659177 A 20121024